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-- FakeSegDefs.mesa Edited by: Sandman, February 3, 1978 10:02 AM

DIRECTORY
  SegmentDefs: FROM "segmentdefs",
  AltoDefs: FROM "altodefs",
  WartDefs: FROM "wartdefs";

DEFINITIONS FROM SegmentDefs, AltoDefs;

FakeSegDefs: DEFINITIONS =
  BEGIN

    DefaultBase: PageNumber = SegmentDefs.DefaultBase;
    DefaultPages: PageCount = SegmentDefs.DefaultPages;
    DefaultFile: FileHandle = NIL;

    VMBounds: TYPE = RECORD [ffvmp, 1fvmp: CARDINAL];

    FakeSegmentHandle: TYPE = POINTER TO FakeSegmentObject;

    FakeSegmentObject: TYPE = RECORD [
      File: FileHandle,
      Type: PRIVATE {free, file, window},
      Class: FileSegmentClass,
      Access: AccessOptions,
      SwappedIn: BOOLEAN,
      CopyToImage: BOOLEAN,
      Base: PageNumber,
      Pages: PageCount,
      VMAddress: Address,
      Link: FakeSegmentHandle,
      LockCount: PRIVATE INTEGER,
      TrueFile: FileHandle,
      ImageBase: PageNumber,
      Link2: FileSegmentHandle,
      BootLink: PRIVATE POINTER];

    FakeInvalidSegment: ERROR [s:POINTER];

    FakeNewSegment: PROCEDURE [file:FileHandle, base:PageNumber, pages:PageCount, access:AccessOptions] R
    **RETURNS [FakeSegmentHandle];
    FakeDeleteSegment: PROCEDURE [segment:FakeSegmentHandle];

    FakeTooManySegments: SIGNAL;
    FakeInvalidSegmentSize: ERROR;
    FakeInsufficientVM: SIGNAL [needed:PageCount];
    FakeVMNotFree: SIGNAL [base:PageNumber, pages:PageCount];

    FakeSwapError: ERROR [segment:FakeSegmentHandle];
    FakeSwapIn, FakeUnlock, FakeSwapOut: PROCEDURE [segment:FakeSegmentHandle];

    FakeEnumerateSegments: PROCEDURE [
      proc:PROCEDURE[FakeSegmentHandle]RETURNS[BOOLEAN]] RETURNS [FakeSegmentHandle];

    FakeFileHandle: TYPE = POINTER TO FakeFileObject;

    FakeFileObject: TYPE = RECORD [
      File: FileHandle,
      InUse: PRIVATE BOOLEAN,
      ShouldOpen: BOOLEAN,
      Access: AccessOptions,
      BootLink: PRIVATE POINTER];

    FakeTooManyFiles: SIGNAL;

    FakeInitFileMachinery: PROCEDURE;
    FakeInsertFile: PROCEDURE [seg:FakeSegmentHandle] RETURNS [BOOLEAN];
    FakeInitSegMachinery: PROCEDURE [PageNumber, PageNumber];
    FakeEnumerateFiles: PROCEDURE [
      proc:PROCEDURE[FakeFileHandle]RETURNS[BOOLEAN]] RETURNS [FakeFileHandle];
    DeclareMemoryBounds: PROCEDURE [CARDINAL, CARDINAL];
    GetVMBounds: PROCEDURE RETURNS [VMBounds];
    SetSegmentBootLink: PROCEDURE [FakeSegmentHandle, WartDefs.BootIndex];
    GetSegmentBootLink: PROCEDURE [FakeSegmentHandle] RETURNS [WartDefs.SegmentBootIndex];
  END.
```